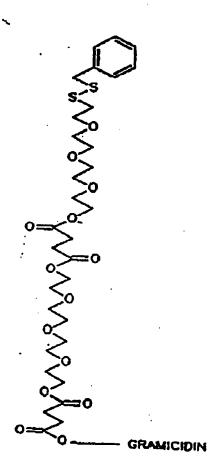
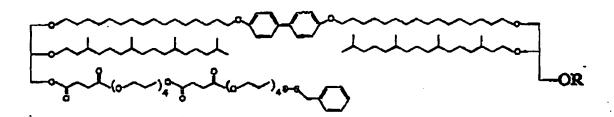
LINKER LIPID A



LINKER GRAMICIDIN B



BIOTINGLATED GRAMICIDIN E

# . 5/15

# ADDITION OF 100% (v/v) WHOLE BLOOD TO MONOLAYER MEMBRANES

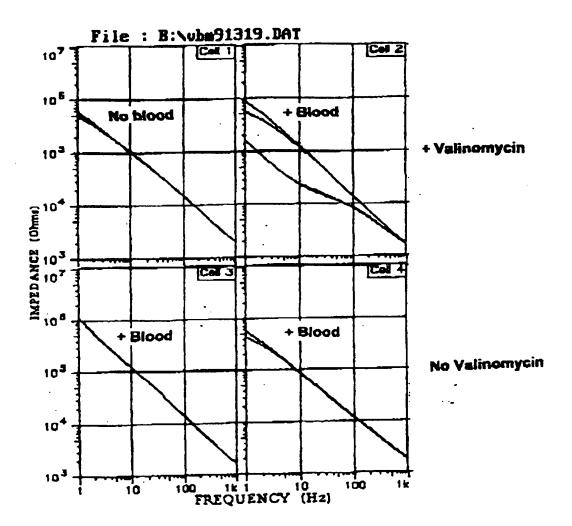
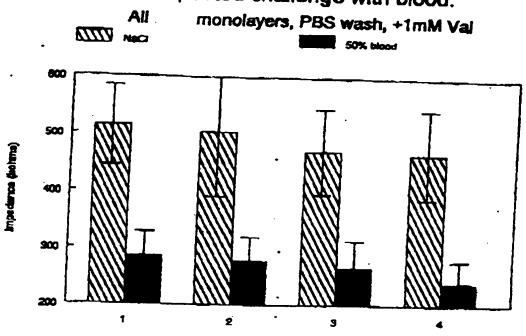


Figure 7

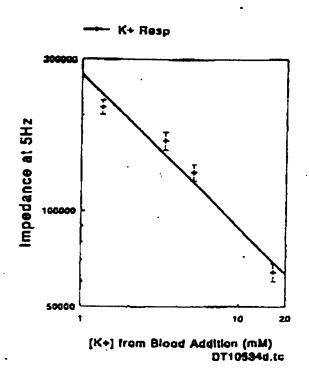




No. repeated blood challenge

Figure 8

#### **Blood-Volume Titration**



Blood [K+] in well

1.34mM

3.35mM

5.03mM

16.75mM

bioodvi.tc (average 4 electrodes)

Figure 9 : Human whole blood K+ titration in biosensor membrane.

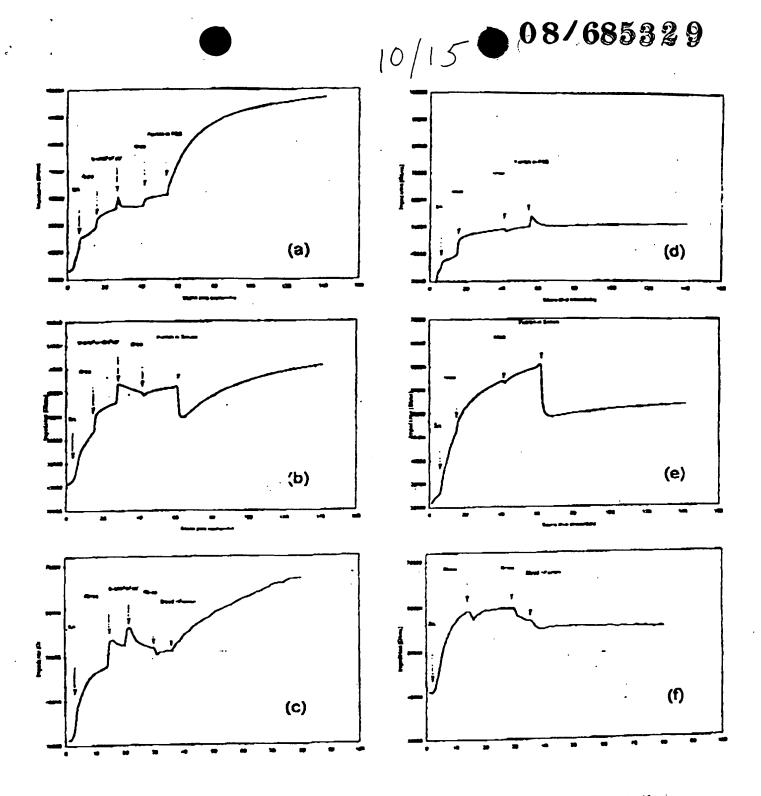


Figure 10: 500pM Ferritin response in human whole blood and serum.

### ENDOGENOUS SERUM FERRITIN DETECTION FROM 4 DIFFERENT VOLUNTEERS

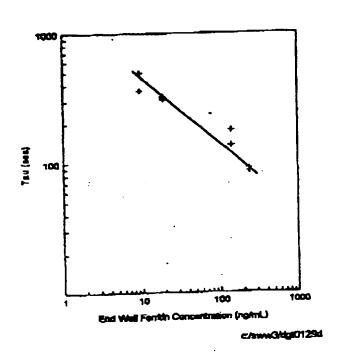
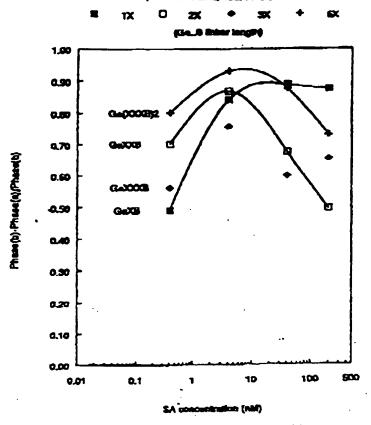


Figure 11: Ferritin titration curve based on endogenous ferritia levels in human serum.

12/15 08/685329

### SA titration with various GaX...B



METHOD: 5/4 membranes

1st layers: 10mM GMPE

1mM DLP

10uM MSLXXX 0.8mM MAAD 0.1uM Gayyss

2nd layer: 28mM GMPE

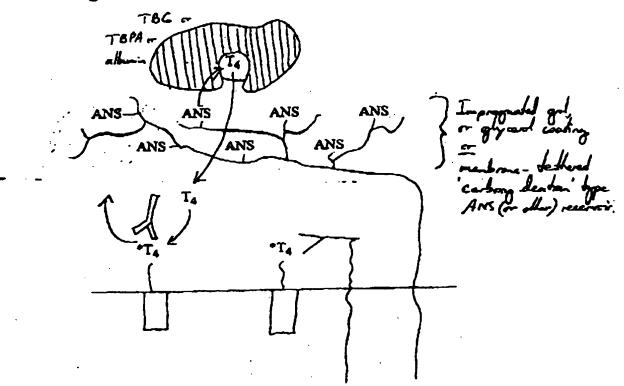
0.28uM GaX\_B chosen from the following:

GaX(B) GaXXX(B) GaXXXX(B) Ga(XXX(B))2

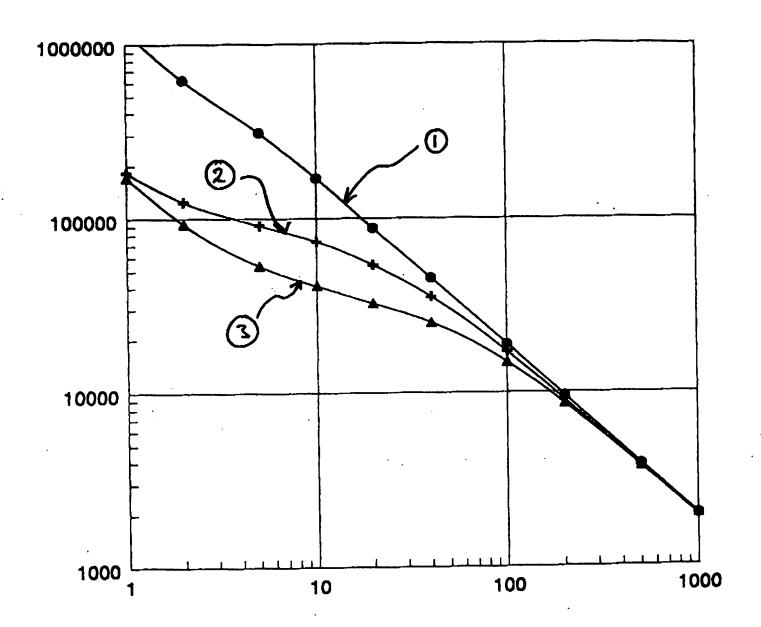
Figure 12

Figure 13

### EXAMPLE OF TA ASSAY WITH AMBRI BIOSENSOR

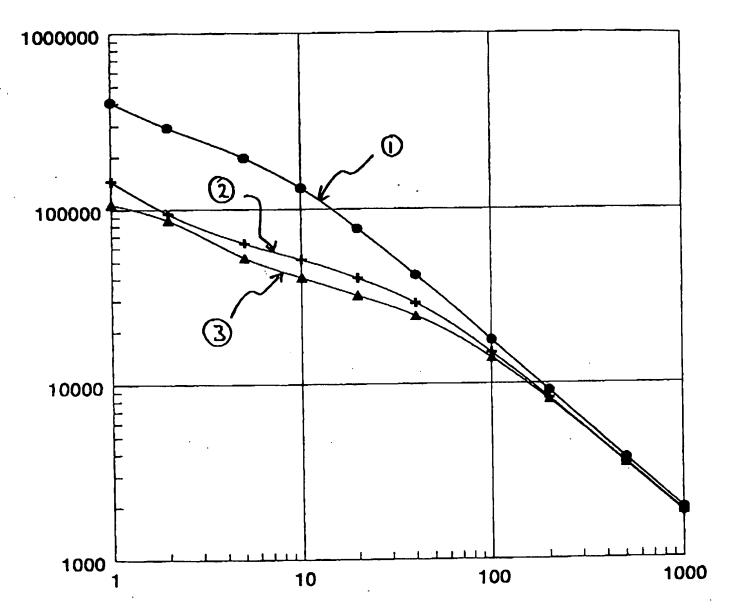


## Figure 14



- (1) before the addition of gramicidin/SDS
- (2) after the addition of gramicidin/SDS; streptavidin and biotinylated Fab'
- (3) after the addition of ferritin

### Figure 15



- (1) before addition of gramicidin/streptavidin
  - (2) after addition of gramicidin/streptavidin and biotinylated Fab's
  - (3) after addition of TSH